

Base Label:

(Logo) Pytech

Proaxis™ GPC**Insecticide**

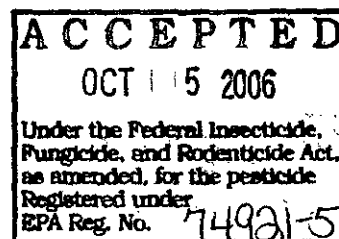
For use as a general surface, crack and crevice, or spot treatment in, on, and around buildings and structures and their immediate surroundings, and on modes of transport.

For use on indoor or outdoor areas where turf and ornamentals are grown such as residential landscape areas, non-residential landscapes (around institutional, public, commercial and industrial buildings, parks, recreational areas), and athletic fields.

Active Ingredient:

Gamma-cyhalothrin: Cyclopropanecarboxylic
acid, 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-
2,2-dimethyl,cyano(3-phenoxyphenyl)
methyl ester.....5.9%
Other Ingredients94.1%
Total100.0%

Contains 0.5 lb of active ingredient per gallon.
Contains petroleum distillate.

**Keep Out Of Reach Of Children****CAUTION PRECAUCION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Precautionary Statement

Hazards to Humans and Domestic Animals

Causes Moderate Eye Irritation • Harmful If Swallowed • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reaction In Some Individuals

Avoid contact with eyes, skin, or clothing. Wear long-sleeved shirt, long pants, chemical-resistant gloves (≥14 mils such as barrier laminate or viton), shoes and socks, and protective eyewear. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

First Aid

If swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Note to Physician: Induced vomiting as first aid for this substance may result in increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent. Vomiting should be induced only under professional supervision.

Skin exposure may also result in a sensation described as a tingling, itching, burning, or prickly feeling. Onset may occur immediately to 4 hours after exposure and may last 2 to 30 hours, without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

This pesticide is extremely toxic to fish and aquatic organisms and toxic to wildlife. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

Physical and Chemical Hazards

Do not use or store near heat or open flame.

Refer to label booklet for Directions for Use including Storage and Disposal.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs, or clothing.

Shake Well Before Using

EPA Reg. No. 74921-5

EPA Est. _____

™Trademark of Pytech

Pytech Chemicals GmbH • Indianapolis, IN 46268 U.S.A.

Net Contents __ gal

Label Booklet:

(Logo) Pytech

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Refer to inside label booklet for additional Precautionary Statements and Directions for Use including Storage and Disposal.

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(Page 1 through end):

Precautionary Statements

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Physical and Chemical Hazards

Do not use or store near heat or open flame.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior landscapes, ornamental gardens or parks, or lawns and grounds.

Storage and Disposal

Prohibitions: Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area. **Do not allow product to freeze.**

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Disposal: Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

General Information

Proaxis™ GPC insecticide is a microencapsulated synthetic pyrethroid insecticide that controls insects by contact and ingestion.

Structural Treatments

Proaxis GPC is for use as a general surface, crack and crevice or spot treatment in nonfood/nonfeed areas in, on, and around buildings and structures and their immediate surroundings, and on modes of transport using hand application equipment. Permitted areas of use include, but are not limited to, aircraft (cargo and other non-cabin areas only), apartment buildings, boiler rooms, buses, closets, correctional facilities, decks, entries, factories, fencing, floor drains (that lead to sewers), food granaries, food grain mills, food manufacturing, processing and serving establishments; furniture, garages, garbage rooms, greenhouses (non-commercial), hospitals, hotels and motels, houses, industrial buildings, laboratories, livestock/poultry housing, landscape vegetation, locker rooms, machine rooms, mausoleums, mobile homes, mop closets, mulch, nursing homes, offices, patios, pet kennels, porches, railcars, restaurants, storage rooms, schools, sewers (dry), stores, trailers, trees, trucks, utility passages, vessels, vestibules, warehouses, wineries and yards. Proaxis GPC may be converted to a foam and the foam used to treat structural voids to control or prevent pests including ants, bees, termites (above ground only), wasps, or other arthropods harboring in walls, under slabs, or in other void areas. For indoor applications, re-treat at 21-day intervals or as necessary to maintain control.

Specific Use Precautions and Restrictions for Structural Treatments:

- Let treated surfaces dry before restocking the facility and allowing humans and pets to contact surfaces.
- Do not use this product with oil.
- Do not apply this product in any room being used as living, eating, sleeping, or recovery area by patients, the elderly, or infirm when they are in the room.
- Do not make interior applications of Proaxis GPC in areas of facility where animals other than cattle or calves are present.
- Do not apply to classrooms when in use.
- Do not apply to institutions (including libraries, sports facilities, etc.) in the immediate area when occupants are present.

- In home, cover all food handling surfaces and cover or remove all food and cooking utensils, or wash thoroughly after treatment.
- Do not apply this product to edible growing crops or stored raw agricultural commodities used for food or feed.
- Do not apply to any animal feedstuffs, water, or watering equipment.
- Do not contaminate any animal food, feed, or water in and around livestock, poultry, or pet housing when making applications.
- Do not allow applications to contact water inhabited by fish, such as in aquariums and ornamental fish ponds that are located in/around structures being treated.
- Do not use in food/feed areas of food/feed handling establishments, restaurants or other areas where food/feed is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served such as dining rooms, but excluding areas where foods may be prepared or held.
- Non-food/feed areas of food/feed handling establishments where the product can be applied are areas such as garbage rooms, lavatories, floor drains (to sewer entries and vestibules), offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).

Mixing Directions

Dilute Proaxis GPC with water for application using hand-held or power-operated application equipment as a coarse spray for crack and crevice or spot and general surface (nonfood/nonfeed areas only) treatments. Application equipment that delivers low volume treatments, such as the Micro-Injector or Actisol applicator, may also be used to make crack and crevice or spot and general surface treatments. Fill the applicator tank with the desired volume of water and add Proaxis GPC. Close and shake before use in order to ensure proper mixing. Shake or reagitator applicator tank before use if application is interrupted. Mix only amount of treatment volume as required. A general surface treatment of Proaxis GPC may be applied by using a paintbrush or other porous applicator attached to a handle.

Tank Mixing

Proaxis GPC may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other product(s) (jar test) is recommended to ensure compatibility. If mixed with sanitizers, Proaxis GPC should be added to the tank first. If other chemicals are added to the applicator tank, Proaxis GPC should be added last. If mixed with EC formulations, use the mixture within 24 hours. Fill tank to desired volume and continue to agitate while applying. Proaxis GPC may be tank mixed with an insect growth regulator (IGR) such as Archer Insect Growth Regulator. Follow the precautions and limitations of the most restricted product in the tank mixture.

Concentration of ai (%)	Dilution Rate			
	fl oz/gal of water	mL/gal of water	fl oz/3 gal of water	mL/3 gal of water
0.0075	0.16	5	0.5	15
0.015	0.33	10	1	30
0.03	0.65	20	2	60

Note: Numbers in parenthesis refer to footnotes below table.

Target Pests		Concentration of ai (%)
ants (except carpenter, Pharaoh's)	fleas (2)	0.0075 - 0.015
bees	flies	
boxelder bugs	lesser grain borers	
carpenter bees	millipedes	
carpet beetles	red flour beetles	
cigarette beetles	rice weevils	
clover mites	sawtoothed grain beetles	
confused flour beetles	silverfish	

crickets	sowbugs	
earwigs	termites (above ground only) (7)	
firebrats	wasps	
bedbugs (adult)	cockroaches (1)	0.015 – 0.03
centipedes		
ants (including red imported fire ant)	pillbugs	0.03
cockroaches (1)	scorpions	
crickets (6)	spiders (6) (except black widow, brown recluse)	
flies [†] (5)	spider mites (two spotted, spruce)	
litter beetles (3) (such as darkling, hide, carrion)	ticks (6)	
mosquitoes (4)		

[†]Not approved for use in California at the high rate.

¹ The rate for clean-out treatments is 0.015%. For control of severe infestations, use 0.03% rate..

² For outdoor use only; use only 0.015% rate.

³ For control of light beetle infestations, use only 0.015% rate.

⁴ For residual control, use 0.06% rate.

⁵ Rates for flies may be increased to 0.03% when environmental conditions are severe and/or populations are high.

⁶ For clean-out/severe infestations, use 0.03% rate.

⁷ Not for structural protection; use at or above 0.0057%.

Pest Specific Use Directions:

Ants: Apply to any trails around doors and windows and other places where ants may be found. For best results, locate and treat nests. Where ants are trailing inside, apply as a residual surface treatment to active areas such as baseboards, corners, around pipes, in and behind cabinets, behind and under refrigerators, sinks, furnaces and stoves, cracks and crevices. When combining baits and residual surface insecticides, apply surface insecticides in cracks and crevices, along baseboards, and infested surfaces and outside barrier treatments. Treatment of perimeter landscaping can reduce honeydew-producing insects and limit this ant food source. Use baits in other areas that are untreated by residual insecticides. See also Outdoor Surfaces.

Cockroaches, Crickets, Earwigs, Firebrats, Silverfish, Spiders: Apply as a coarse, low pressure spray to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, cabinets, behind and under refrigerators, furniture, sinks, furnaces and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices. See also Outdoor Surfaces.

Bedbugs: Clean floors and surfaces by vacuuming. Apply as a coarse, low-pressure spray to harborage areas including crevices, baseboards, loose plaster, behind bed frames and headboards, beneath beds and furniture, and to bedsprings and bed frames. Do not apply to furniture surfaces or mattresses where people will be lying or sitting. Infested bedding should not be treated, but should be removed, placed in sealed plastic bags, and taken for laundering and drying at high temperatures.

Bees, Flies, Mosquitoes, Wasps: Apply directly to walls, ceilings, window screens, and other resting areas as a residual surface treatment. May be used inside residential buildings as well as in and around carports, garages, and storage sheds. See also Outdoor Surfaces. Use care when treating nests of stinging insects as Proaxis GPC does not provide instant knockdown. Protective equipment for the applicator may be required. For best results, treat bee, wasp and hornet nests late in the day when most insects will be present. Allow 2 to 3 days for colony to die and re-treat if necessary. For mosquito control, apply as a general structural perimeter spray to landscape plantings, turf, and building foundations to control mosquitoes. Yards or other frequented areas enclosed by landscaping can benefit from the

creation of a mosquito barrier to reduce invading mosquitoes by the treatment of perimeter vegetation. For best results, apply Proaxis GPC at listed rates in 2 to 5 gallons of water per 1000 sq. ft. Higher volumes applied result in better coverage and, as a rule, will improve control. Application to vegetation away from structures may require additional certification, e.g., in turf or ornamental categories. Consult your state regulatory agency for requirements.

Carpenter Bees: Apply coarse spray to thoroughly wet wood surfaces where bees have been previously active or to provide protection against further damage. Apply early in the spring to prevent bees from invading wood. When bees have infested wood, surface applications can help control embedded larvae and bees that emerge from the wood. Applications can be made on a monthly basis to maintain protection of treated areas.

Pantry Pests (i.e., Carpet Beetle, Cigarette Beetle, Confused Flour Beetle, Lesser Grain Borer, Red Flour Beetle, Rice Weevil, Sawtoothed Grain Beetle): Apply to cupboards, shelving, and storage areas. Remove all utensils, uncovered foodstuffs (or any having original package opened), and shelf paper before making application. Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils, foodstuff, or other items. Any foodstuff accidentally contaminated with treatment solution should be destroyed.

Boxelder Bugs, Centipedes, Millipedes, Pillbugs, Sowbugs: Apply around doors and windows and other places where these pests may be found or where they may enter premises. Treat baseboards, storage areas, and other locations. Apply barrier treatments to prevent infestation as described below. See also Outdoor Surfaces.

Fleas, Ticks: To control nuisance fleas and ticks (e.g., dog ticks) apply to kennels, yards, runs, and other areas where pets may frequent. For best coverage to control ticks, apply using a coarse fan spray to vegetation brush, branches, rock walls, and other areas near habitation where ticks may harbor or frequent. Treat entire area rather than making spot treatments, and re-treat as necessary to maintain control. Do not apply to pasture or cropland, and do not allow animals and people access to treated areas until the deposit has dried. Applications can be made on a monthly basis, beginning in the spring, and can continue until frost to control both larvae and adult ticks. Also, treat pets with a product registered for flea and tick control. See also Outdoor Surfaces.

Cluster Flies: Apply in late summer or early fall before flies are observed alighting on surfaces. Apply thoroughly on siding, under eaves, and around windows and doors, paying particular attention to southfacing surfaces. Apply just enough dilution to adequately cover the area without excessive dripping or runoff. Volume can vary depending upon the surface type treated. Heavy precipitation prior to frost may require re-treatments to maintain protection. In winter and spring when flies become active and are emerging, interior crack and crevice and void treatments can help reduce the infestation, along with ULV or general surface application in infested attics or unoccupied lofts.

Litter Beetles (Darkling, Hide, Carrion) and Flies in Animal Housing (such as Poultry Houses): To control adult litter beetles, apply Proaxis GPC to walls and floors at cleanout, before reintroduction of animals. This will suppress beetles that escaped earlier treatment and will help delay onset of future infestations. Pay attention to areas where beetles frequently occur, such as walls, supports, cages, stalls, and around feeders. To help control flies, apply a directed application to horizontal surfaces and overhead areas and allow to dry before reintroduction of animals. See also Livestock/Poultry Housing Structures and Pet Kennels.

Livestock/Poultry Housing Structures and Pet Kennels

Apply as a general surface (including directed sprays) and/or crack and crevice treatment. Control is enhanced when interior and exterior perimeter applications are made in and around the livestock, poultry, and pet housing structures. Normal cleaning practices of the structure also must be followed along with applications of Proaxis GPC to effectively control the crawling and flying insect pests listed in the table. For unoccupied areas of livestock barns or housing structures, apply to floors, vertical, and overhead

surfaces where crawling or flying insect pests are or may be present. Feeders, waterers, and feed carts should be covered before application to prevent contamination. Do not apply to milk rooms or feed rooms. Pay attention to animal areas including stanchions, pipes, windows and doors, and areas where insect pests hide or congregate. Exterior applications to south facing walls and foundation perimeters can help prevent interior infestations of flying and crawling insect pests. For poultry houses, apply to floor area (birds grown on litter) or to walls, posts, and cage framing (birds grown in cages). Application should also be made into cracks and crevices around insulation. Reapply after each growout or sanitization procedure. Indoor control can be enhanced by making perimeter treatments around the outside of building foundations to prevent immigrating adult beetles. Apply in a uniform band 1 to 3 feet up and 2 to 6 feet out from foundation. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

Outdoor Surfaces

For control of ants, bees, centipedes, cockroaches, crickets, fleas, flies, millipedes, mosquitoes, scorpions, sowbugs, pillbugs, spiders, termites (above ground only), ticks, wasps, and other similar perimeter arthropod pests. Apply with either hand or power application equipment as a residual treatment to ornamental plants next to foundations of buildings and to surfaces of buildings, porches, screens, window frames, eaves, patios, garages, refuse dumps, and other similar areas where these insect pests are active. For termites, this type of application is not intended as a substitute for soil treatment labeled termiticides or mechanical alteration to control subterranean termites, or fumigation for extensive infestation of drywood termites or other wood-infesting insects. The purpose of such applications of Proaxis GPC for termites is to kill workers or winged reproductive forms which may be present in treated channels at the time of treatment. Such applications are not a substitute for mechanical alteration, soil treatment or foundation treatment, but are merely a supplement. This product is not recommended as sole protection against termites. For active termite infestations, get a professional inspection.

Perimeter Barrier

Applying a continual band of insecticide around a building foundation and around windows, doors, service line entrances, eaves, vents, and other areas can greatly reduce the potential for entry by crawling pests. To facilitate application, remove debris and leaf litter from next to the foundation, cut back vegetation and branches that touch the foundation, and move or rake back rocks, deep mulch, or other potential pest harborage next to the foundation. Apply the band up to 10 feet wide around the structure (or according to state regulations governing commercial pest control) and upwards along the foundation to 3 feet and around windows, doors, and roof overhangs. Apply as a coarse spray to thoroughly and uniformly wet the foundation and/or band area so that the insecticide will reach the soil or thatch level where pests may be active. The amount of concentrate is dependent upon pest species (see pest table and comments), infestation levels, and service interval desired.

Rate Table for Perimeter Barrier:

Proaxis GPC		Amount of Water (Gallons)	Coverage Area (sq ft)
fl oz	mL		
0.16	5	1 - 5	800 -1600
0.33	10		
0.65	20		

Application volume may be greater than 5 gallons per 800 to 1600 sq ft if required under heavy vegetative or landscaping materials in order to obtain desired coverage.

Application Volume Gallons/1000 sq ft	Proaxis GPC 1000 sq ft		Proaxis GPC Dilute in Water		Spray Tank Volume
	fl oz	mL	fl oz	mL	
1	0.16	5	0.8	25	5
	0.33	10	1.6	50	

	0.65	20	3.2	100	10
	0.16	5	1.6	50	
	0.33	10	3.2	100	
	0.65	20	6.4	200	50
	0.16	5	8	250	
	0.33	10	16	500	
	0.65	20	32	1000	
2	0.16	5	0.4	12	5
	0.33	10	0.8	25	
	0.65	20	1.6	50	
	0.16	5	0.8	25	10
	0.33	10	1.6	50	
	0.65	20	3.2	100	
	0.16	5	4	125	50
	0.33	10	8.5	250	
	0.65	20	17	500	
5	0.16	5	0.16	5	5
	0.33	10	0.33	10	
	0.65	20	0.65	20	
	0.16	5	0.33	10	10
	0.33	10	0.65	20	
	0.65	20	1.3	40	
	0.16	5	1.6	50	50
	0.33	10	3.2	100	
	0.65	20	6.4	200	

To apply the mid-rate of Proaxis GPC at a volume of 5 gallons/1000 sq ft, mix 3.2 fl oz of concentrate in 50 gallons of water.

The percent active ingredient in the finished dilution of Proaxis GPC can be calculated with the following formula:

$\text{mL needed} \times 5.9\% \text{ active ingredient in concentration} \div \text{gallons finished dilution} \times 3785 \text{ mL/gallon} = \% \text{ active ingredient in dilution.}$

Example: 3 oz in 50 gallons = 100 mL $\times 5.9 = 590$; 50 gallons $\times 3785 = 189,250$. $590 \div 189,250 = 0.003\%$ active ingredient in tank dilution

Note: Do not use water base sprays of Proaxis GPC in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard. For best results, thoroughly wash out sprayer and screen with water and detergent before using Proaxis GPC. Proaxis GPC has not stained or caused damage to painted or varnished surfaces, plastics, fabrics, or other surfaces where water applied alone causes no damage. However, treat a small area and allow to dry to determine whether staining will occur.

Turf and Ornamental

Proaxis GPC may be used for applications to maintain indoor or outdoor areas where turf and ornamentals are grown such as residential landscape areas and non-residential landscapes around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (including trees, shrubs, flowers, evergreens, foliage plants and groundcovers). Applicators must ensure that they are certified in the necessary pesticide certification categories to allow application of Proaxis GPC away from structures, such as to turf and ornamental plantings. Structural pest control certification

categories may limit the distance away from structures for pesticide application. Consult your state extension office or pesticide regulatory officials for further information.

Specific Use Precautions and Restrictions for Turf and Ornamental:

- Time application to flowering plants during periods when pollinating insects are not present, such as early morning or late evening.
- **Chemigation:** Do not apply this product through any type of irrigation system.
- Do not apply this product to edible crops.
- Do not apply this product by aerial application.
- Do not apply more than 42 fl oz of Proaxis GPC (0.28 lb active ingredient) per acre per year.
- For spot treatments, use 0.4 fl oz of Proaxis GPC in 1 to 2 1/2 gallons of water.

Spray Drift Precautions

Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes; reservoirs; rivers; permanent streams, marshes, or natural ponds; estuaries; and commercial fish farm ponds.

1. Do not apply Proaxis GPC within 25 feet of lakes; reservoirs; rivers; permanent streams, marshes or natural ponds; estuaries; and commercial fish farm ponds.
2. Do not make outdoor broadcast applications to turf and ornamentals when wind speed is 15 mph or greater.
3. In the state of New York, do not apply within 100 feet of coastal marshes or streams that drain into coastal marshes.

Mixing Directions

Proaxis GPC is intended for dilution with water and may be used in all types of standard application equipment. Fill applicator tank with the desired volume of water and add Proaxis GPC. The water should be 5-7 pH. Adjust water pH with a buffering agent if necessary. Slowly add Proaxis GPC to applicator tank water with maximum agitation. Close and shake or reagitator applicator tank before use if application is interrupted. Mix only amount of treatment volume as required.

Tank Mixing

Proaxis GPC may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. Adjuvants such as spreader stickers, wetting agents, and penetrants may also be added. A small volume mixing test with the other product(s) (jar test) is recommended to ensure compatibility. If other chemicals are added to the applicator tank, Proaxis GPC should be added last. If mixed with EC formulations, use within 24 hours. Fill tank to desired volume and continue to agitate while applying. Observe all restrictions and precautions which appear on the labels of these products.

Mixing Chart for Ornamentals

Note: Numbers in parenthesis refer to footnotes below table.

Rate of Proaxis GPC (fl oz)	Amount Proaxis GPC (fl oz) in Water to Make				
	25 Gallons	50 Gallons	100 Gallons	200 Gallons	300 Gallons
1.2 (1)	0.32	0.64	1.2	2.4	3.6
2.4 (2)	0.64	1.2	2.4	4.8	7.2
4 (3)	1	2	4	8	12

¹ Equivalent to 2.8 mL/1000 sq ft (or 4 fl oz/acre) when applied at 8 gallons/1000 sq ft.

² Equivalent to 5.6 mL/1000 sq ft (or 8 fl oz/acre) when applied at 8 gallons/1000 sq ft.

³ Equivalent to 7.6 mL/1000 sq ft (or 11 fl oz/acre) when applied at 8 gallons/1000 sq ft.

Ornamental Pests and Application Rates

Target Pests		Proaxis GPC	
		fl oz/100 Gallons	mL/100 Gallons
ants (including imported fire ants)	leafhoppers	1.2 - 4	35 - 118
armyworms	leafminers (adults)		
azalea caterpillars	leaf rollers		
aphids	leaf skeletonizers		
bagworms	midges		
black vine weevils (adult)	mosquitoes		
boxelder bugs	oleander moth larvae		
budworms	pillbugs		
California oakworms	pine sawflies		
cankerworms	pine shoot beetles		
cockroaches	pine tip moths		
crickets	plant bugs		
cutworms	root weevils		
eastern tent caterpillars	sawflies		
elm leaf beetles	scale insects (crawlers)		
European sawflies	spiders		
fall webworms	spittlebugs		
flea beetles	striped beetles		
forest tent caterpillars	striped oakworms		
gypsy moth larvae	thrips		
Japanese beetles (adults)	tip moths		
June beetles (adults)	tussock moth larvae		
lace bugs	wasps		
leaf-feeding caterpillars			
broadmites	mealybugs	2.4 - 4	70 - 118
brown soft scale	pine needle scale (crawlers)		
California red scale (crawlers)	spider mites		
clover mites	whiteflies		

To prepare a mid-rate dilution of Proaxis GPC, mix 2.4 fl oz (70 mL) of concentrate in 100 gallons of water.

Begin applications to ornamentals prior to the establishment of high insect pest populations. Reapply at 7-day intervals if re-treatment is necessary to keep pest populations under control, using higher rates as pest pressure increases. More frequent applications should be limited to spot treatments. As plants grow, new foliage will be unprotected until treated. Good spray coverage is necessary to provide the most effective level of control. Addition of a spreader-sticker may enhance the control of insects on certain species of ornamentals having waxy, hard to wet foliage. Consult your state university or local Cooperative Extension Service office for specific pest control application timing in your area.

Note: While phytotoxicity testing has been carried out on a wide range of ornamental plants under various environmental conditions and no phytotoxicity has been observed, certain cultivars may be sensitive to the final spray solution. Spray a selection of ornamental plants and observe them for 7 to 10 days prior to treating large areas if local use experience is unavailable. This is especially important if Proaxis GPC is being mixed with another product or ingredient other than water. See Tank Mixing under Turf and Ornamental.

Pest Specific Use Directions:

Scale: Thoroughly cover the plant with Proaxis GPC, including trunks, stems, twigs, and foliage for control of scale insects (crawler stage).

Bagworm: Apply Proaxis GPC when bagworm larvae begin to hatch. Spray directly on the larvae. Treatment is the most effective when the larvae are young.

Mixing Chart for Turf

Rate of Proaxis GPC (fl oz/acre)	Amount Proaxis GPC (fl oz) in 100 Gallons of Water per 1000 sq ft				
	2 Gallons	4 Gallons	6 Gallons	8 Gallons	10 Gallons
4	4.5	2.3	1.5	1.1	1
8	9.2	4.5	3	2.3	2
16	18.4	9.2	6	4.5	4

1 fl oz = 29 mL

Turf Pests and Application Rates

Note: Numbers in parenthesis refer to footnotes below table.

Target Pests		Proaxis GPC	
		fl oz/acre	mL/1000 sq ft
ants (including red imported fire ants)	Japanese beetles (adult)	4 - 8	2.7 - 5.6
armyworms	millipedes		
centipedes	mites		
crickets	mosquitoes (adult)		
cutworms	pillbugs		
earwigs	sod webworms		
fleas (adult)	sow bugs		
grasshoppers	ticks (including species which may transmit Lyme disease)		
bluegrass billbugs (adult)	grubs (suppression)	8	5.6
black turfgrass ataenius (adult)	hyperodes weevils (adult)		
chiggers	mole crickets (nymphs, young adults)		
fleas (adult)			
chinch bugs (1)	mole crickets (mature adults) (1)	16	11.2

¹ Not for use on mature adult mole crickets and chinch bugs in the state of New York.

To prepare a mid-rate dilution of 5.6 mL/1000 sq of Proaxis GPC, determine gallons dilution/1000 sq ft needed to cover turf. At 5 gallons/1000 sq ft, add $5.6 \text{ mL} \div 5$ or 1.1 mL per gallon. For a 50 gallon tank, this is equivalent to 55 mL or 2 fl oz in 50 gallons of water.

Begin applications to turf prior to the establishment of high insect pest populations and significant turf damage. Reapply at 7-day intervals if re-treatment is necessary to keep pest populations under control, using higher rates as pest pressure increases. More frequent applications should be limited to spot treatments. Do not apply when turfgrass is waterlogged or when soils are saturated with water (i.e., will not accept irrigation).

Pest Specific Use Directions:

Surface Insects (Armyworms, Cutworms, Fleas, etc.): For best results, apply Proaxis GPC at labeled rates in 2 to 5 gallons of water per 1000 sq ft. The use of a spreader-sticker may be useful if high rainfall amounts are forecast. Otherwise, the addition of adjuvants is not necessary under normal conditions for surface insect control in turf. Delay watering or mowing for 12 to 24 hours for optimum control of surface feeding insect pests.

Thatch Inhabiting Insects (Chinch Bugs, Billbugs, etc.): For best results, apply Proaxis GPC at labeled rates in 2 to 10 gallons of water per 1000 sq ft. The use of a nonionic wetting agent, penetrant or similar adjuvant may be used at labeled rates. Lightly irrigate after application with up to 1/2 inch of water to move Proaxis GPC into the thatch layer. If irrigation is not available, then use high water application rates for optimum results.

Subsurface Insects (Mole Crickets, Grubs, etc.): For best results, apply Proaxis GPC at labeled rates in 4 to 10 gallons of water per 1000 sq ft. The use of a nonionic wetting agent, penetrant or similar adjuvant is strongly recommended following label rates. Use the highest water application rates possible with your sprayer. Apply Proaxis GPC to turf wet with dew, rain or irrigation. Water in immediately after application with 1/4 to 1/2 inch of water for optimum results.

Fire Ants: Treat individual mounds with a drench application using a watering can. Use 0.4 fl oz of Proaxis GPC per 2.5 gallons of water. Thoroughly soak each mound and a 3 foot diameter circle around each mound. Gently apply the mixture to avoid disturbing the mound. Disturbing the mound may cause the ants to migrate and reduce the effectiveness of the treatment. For best results, apply in early morning or late evening hours. Applications can be made on a monthly basis to maintain protection of treated areas.

Mosquitoes: Apply as a general spray around landscape plantings, turf, and building foundations to control mosquitoes. Yards or other frequented areas enclosed by landscaping can benefit from the creation of a mosquito barrier to reduce invading mosquitoes by the treatment of perimeter vegetation. For best results, apply Proaxis GPC at labeled rates in 2 to 5 gallons of water per 1000 sq ft. Higher volumes applied result in better coverage and, as a rule, will improve control.

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